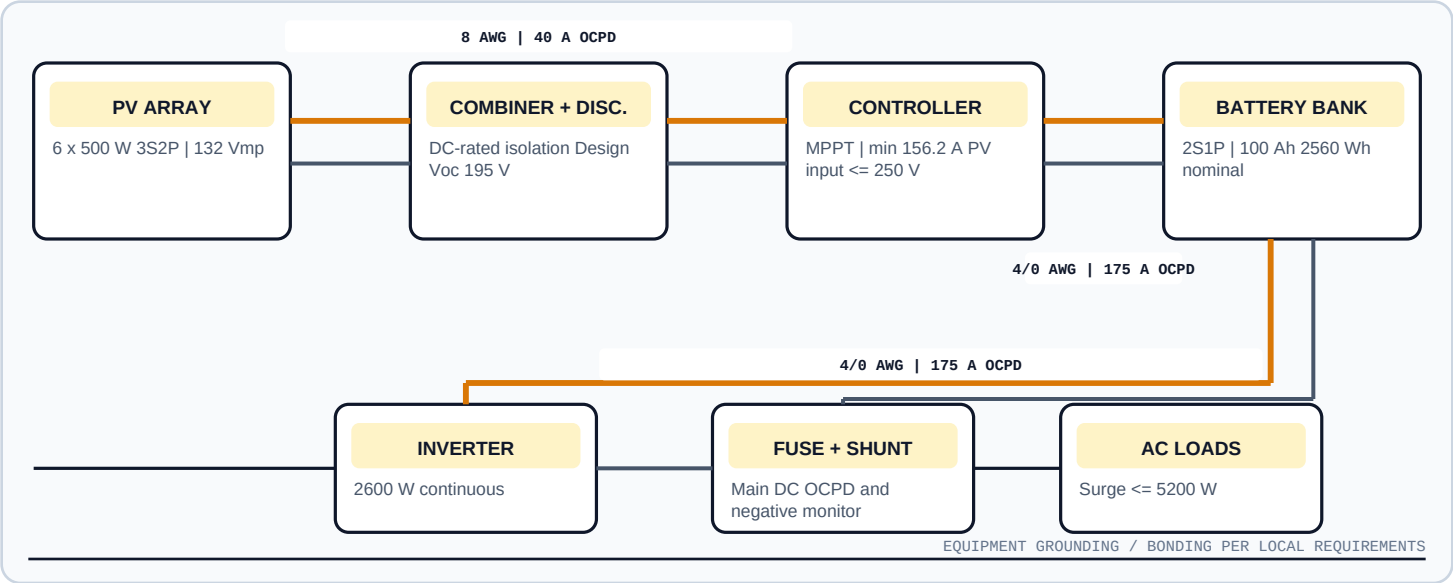
OFF GRID AUTHORITY

# ONE-PAGE SOLAR WIRING PLAN

PROJECT 9A1882FF4E

FREE DIAGRAM

| ARRAY | SYSTEM | BATTERY | INVERTER |
|---|---|---|---|
| 3000 W \| 3S2P | 24 V DC | 2S1P \| 100 Ah | 2600 W |




## WIRE AND OCPD SCHEDULE

| RUN | ONE-WAY | CONDUCTOR | CURRENT | DROP | OCPD |
|---|---|---|---|---|---|
| **Array Controller** | 38 ft | 8 AWG CU | 36.8 A | 1.65% | 40 A |
| **Controller Battery** | 7 ft | 4/0 AWG CU | 125 A | 0.44% | 175 A |
| **Battery Inverter** | 5 ft | 4/0 AWG CU | 120.4 A | 0.3% | 175 A |

### PLANNING DOCUMENT - NOT A PERMIT SET

This conceptual plan is generated from the inputs shown. Verify equipment manuals, terminal temperature ratings, conductor insulation, environmental derating, local amendments, grounding, bonding, rapid shutdown, and permit requirements with the authority having jurisdiction before purchase or installation.

**CALCULATION BASIS**

NEC 2023 Table 310.16 (60 C column); Chapter 9 Table 8; 240.6(A); 690.7; 690.8. Design values do not replace adopted-code review.